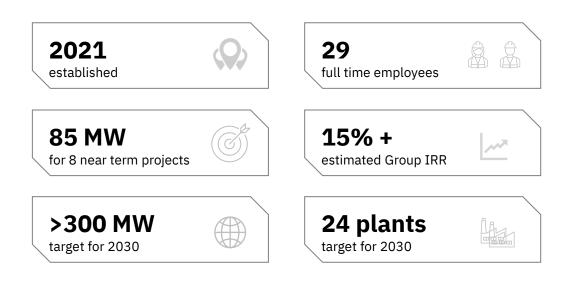


# Green Hydrogen – For a Sustainable Tomorrow

## HYDS is a H<sub>2</sub> developer, operator and producer, supplemented by a vertically integrated EPC business







## HYDS recieved soft funding support from ENOVA - Confirming NOK 206m for Kaupanes and NOK 180m for HyFuel

## 

## HYDS realizes a green energy transition at sea

🗎 NOVEMBER 5, 2024 🕓 11:28

The award from ENOVA paves the way for the green shift at sea through access to green hydrogen, at prices that make the energy transition possible. With this, HYDS is helping to facilitate zero-emission fuel at important hubs for aquaculture and short sea shipping along the Norwegian coast.

HYDS has today been awarded a total of NOK 386 million (respectively NOK 180 million and NOK 206 million) for the projects *HyFuel* (Florø) and *Kaupanes Expansion Project* (Egersund), through Enova's allocation program sector, *Hydrogen production for maritime tran* 

manager HYDS)

From todays award; Idar Senstaba (HYDS Board member/ CEO Dalane Energi), Frode Kirkedam (CCO HYDS), Lone Frogner (HYDS Chairman of the board), Sigmund Størset (Enova), Thor Henrik W. Hagen (CEO HYDS), Øyvind Leistad (Director of Social Economics, Enova SF), Jan Erik Ødegård (Commerical

Enova's support for the two projects applied fo Solutions AS), now facing an important upscali modules.

 I am incredibly proud of the team that has we are ready for an expansion of Kaupane's Hydro, facility. The good cooperation between the ow led by HYDS, through the planning, construction Hagen, CEO of HYDS. NOK 386 mill. granted HYDS from the total amount of NOK 777 mill.

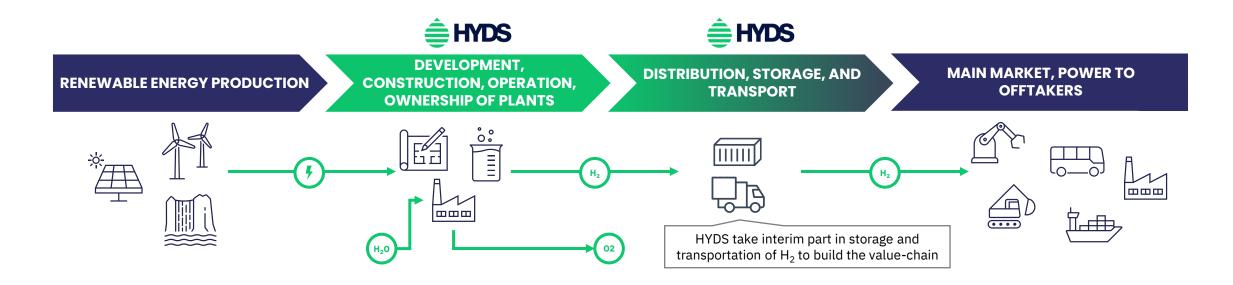
## NOK 206 mill. soft funding to Kaupanes Expansion Project

NOK 180 mill. soft funding to HyFuel Project at Fjordbase, Florø



Kaunane

## HYDS is a developer, operator and owner of hydrogen plants







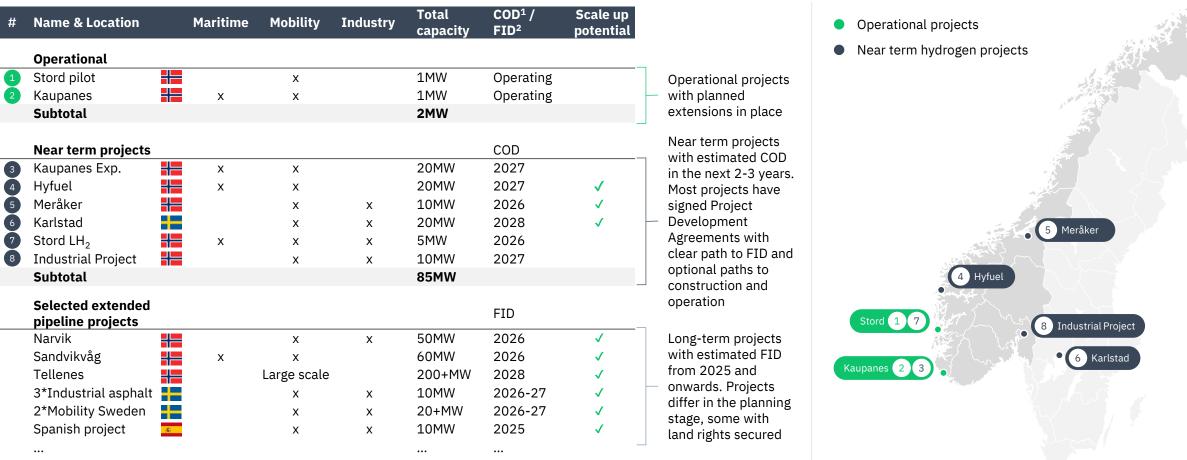






# Two plants in operation and robust pipeline established

## Overview of project pipeline and project description





🚖 Hydrogen projects



## European demand for green H<sub>2</sub> set to increase rapidly - Norway early market mover, and expected to become a key exporter



## Demand for green hydrogen expected to rise rapidly

- Market expected to grow to 1750 TWh by 2050
- Demand is expected to increase significantly as **industries** and **heavyduty** transport segments decarbonize operations
- For many branches within these sectors, low-emission hydrogen is the only feasible option to decarbonize



## Supportive regulatory framework

- EU adopts **certification** for renewable hydrogen to meet climate targets (only Norway and Sweden meet criteria)
- ENOVA offers support schemes for Norwegian projects
- Norwegian H<sub>2</sub> projects eligible for **CO<sub>2</sub> compensation** to prevent carbon leakage
- Green hydrogen producers now eligible
  for **EU carbon allowances**
- Various support schemes across EU



100

2030

Germany

N. Norway - NO4

N. Sweden - SE1

2025

## Norway is uniquely positioned to capture demand

- Power grid that consists of ~100% renewable power at low costs and supportive government schemes
- Norway's access to low-cost green energy leads to a cost advantage compared to most European countries
- Norwegian power prices are expected to stay **below** continental prices

Average yearly power prices of selected

European countries

2035 2040 2045 2050 2055

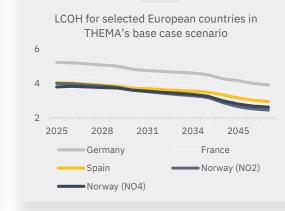
S. Norway - NO2

S. Sweden - SE4



## Green hydrogen rapidly becoming cost-competitive

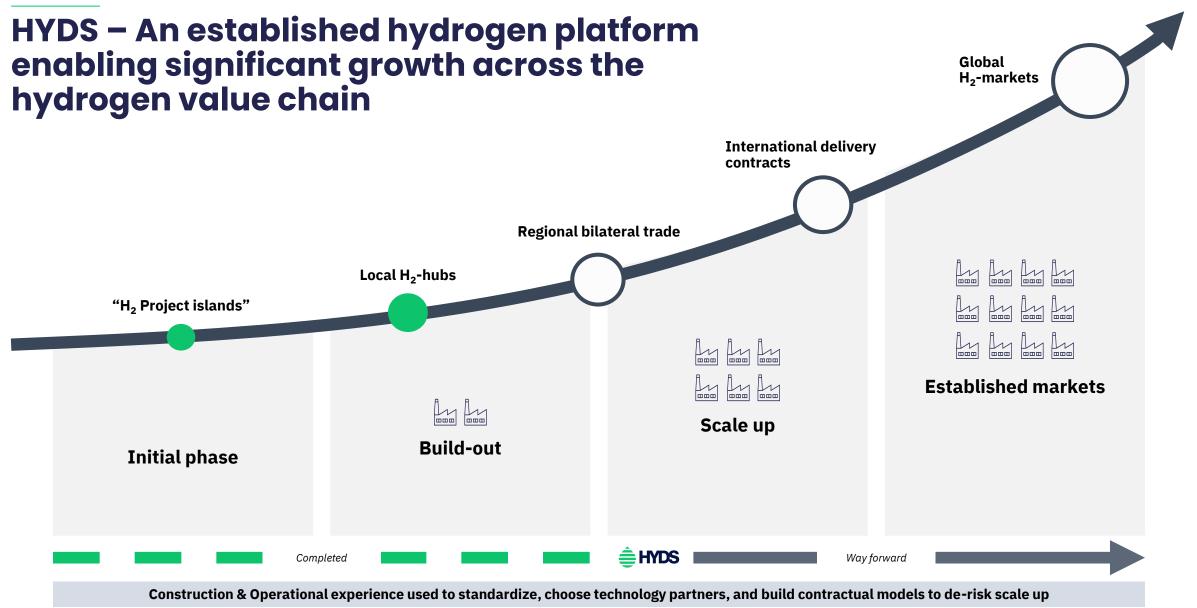
- Hydrogen price expected to follow
  Levelized Cost of Hydrogen (LCOH)
  developments, which in addition to the
  power prices are influenced by elements
  such as maturing technology and lower
  transport cost
- THEMA expects LCOH for Norwegian hydrogen to **decline after 2028**







Source: THEMA Consulting Group, 2024





# Hydrogen platform with high-potential pipeline and proven execution capabilities



#### European Hydrogen demand is expected to surge to >1750 TWh by 2050 – Norway uniquely positioned

- Demand growth is driven by decarbonization in industries and heavy-duty transport, where low-emission hydrogen is a key solution
- European regulatory frameworks support the increased demand for green hydrogen
- Norway is uniquely positioned to capitalize on this demand with a nearly 100% renewable electricity grid, low power costs and supportive government incentives



#### HYDS team has a proven ability to develop, construct, and operate successful projects – modular technology enables low-risk scaling for future growth

- Two plants already in operation, a pilot plant at Stord serving a ground-breaking test-center for future fuels and the first commercial plant at Kaupanes planned to scale up to 20 MW. The first two hydrogen plants are remotely operated with 24/7 surveillance
- HYDS budgets a positive EBIT for 2025 through the business plan of developing, building and operating
- HYDS continues to add profitable projects to the pipeline, leveraging modular and scalable technology
- Established a solid value-driven organization based on core values: Safe, Sustainable, Trust, and Drive



#### Developing, constructing, owning and operating hydrogen plants allows for near term cash flows

- Leveraging experience from the first two plants, and standardizing scalable "Balance of Plant" solutions for new projects
- Solid value proposition and business plan where HYDS manages and controls the development, construction, and operation of hydrogen projects, with flexibility to take ownership positions
- Development, construction, and operations generate significant revenue streams, supporting strong near-term cash flow as the market matures
- HYDS has established strong partnerships with long-term collaboration, framework, and delivery agreements, ensuring solid near-term offtake opportunities



# Hydrogen Solutions

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